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T Kohonen - 2001 - [books.google.com](#)

... of the point density of the codebook vectors using ... 10.3.1 Zero-Order Topology (Classical VQ) Results ... that underlies one of the very recent neural-network algo ...

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... using instead the Euclidean distance and "Mahalanobis distance" between ... of sample data using the code-book density ... Table 3. Number of neurons for each layer ...

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... In the basic SOM algorithm, the topology and the number of neurons remain fixed. ... Each neuron is associated with a codebook entry Click to view the MathML ...

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... are sometimes called Feature or Topology Preserving Maps ... given to it by the neural network literature. ... the Tanimoto measure and the Mahalanobis distance, the ...

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... for the SOM and K-means defined set of codebook vectors. The Mahalanobis distance is calculated between the input vector x ... associated with i th output neuron. ...

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... performs a kind of clustering with preserving the topology of the ... 3. Robust Mahalanobis distances put against ordinary Mahalanobis distances ... codebook vectors ...

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A Naffel, S Khalid - [Proceedings of the Fourth IEEE International Conference on ..., 2006 - doi.ieeecomputersociety.org](#)

... classification is based on the Mahalanobis distance between ... i associated with i th output neuron/cluster centre. ... The codebook vectors are then learnt using the ...

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V Hietanen - automation.it.hut.fi
... Mahalanobis distance between x and v is defined as: ... 3. Find the neuron with the closest
prototype vector $c \in \Gamma$ 4. Update the codebook vectors of all neurons ...
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Z Li, JR Eastman - ucgis.org
... the most (also known as the codebook labeling phase ... b) SOM Commitment; c) Mahalanobis
typicality classifier ... of and classification of unlabelled neurons in the ...
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